

# Checklist of beetles (Coleoptera) of Canada and Alaska. Second edition

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## Abstract

All 8237 species-group taxa of Coleoptera known to occur in Canada and Alaska are recorded by province/territory or state, along with their author(s) and year of publication, in a classification framework. Only presence of taxa in each Canadian province or territory and Alaska is noted. Labrador is considered a distinct geographical entity. Adventive and Holarctic species-group taxa are indicated. References to pertinent identification keys are given under the corresponding supraspecific taxa in the data archive.

## Keywords

Coleoptera, checklist, distribution, classification, adventive and Holarctic species, Alaska, Canada

## Introduction

More than twenty years have passed since the publication of the *Checklist of beetles of Canada and Alaska* (Bousquet 1991). During that period many changes have been introduced into the classification of Coleoptera. For example, the scydmaenines, pse-laphines, scaphidiines, and micropeplines, which were usually regarded as distinct families, are now part of the Staphylinidae, the lyctines are included in the Bostrichidae, the anobiines in the Ptinidae, the languriines in the Erotylidae, the bruchines in the Chrysomelidae, the apionines and ithycerines in the Brentidae, and the scolytines and platypodines in the Curculionidae. On the other hand, a number of family-group taxa, usually treated as subfamilies, are now considered distinct families. This is the

case for the geotrupines, trogines, glaresines, ochodaeines, and the glaphyrines in the superfamily Scarabaeoidea, the silvanines, passandrines, laemophloeines, and kateretines in the Cucujoidea, and the megalopodines and orsodacnines in the Chrysomeloidea. This period also saw the publication of numerous revisions of genus-group and family-group taxa, frequently accompanied by phylogenetic analyses, which have often drastically changed our understanding of the classification of these taxa. Three volumes of the series *The Insects and Arachnids of Canada* have been issued, one dealing with the superfamily Curculionoidea (excluding the Curculionidae) (Bright 1993), one on the Histeridae (Bousquet and Laplante 2006) and one on the Curculionidae subfamily Entiminae (Bright and Bouchard 2008). Finally many Canadian provincial and territorial records have been published in the last twenty years. These represent both new introductions as well as increases in our knowledge of native species distributions largely through increased collection efforts. This is particularly true for the Maritimes, thanks to the effort of Christopher Majka and Reginald Webster. Considering the amount of new information available, we believe that a new edition of the *Checklist of beetles of Canada and Alaska* will help those interested in beetles of the Canadian fauna.

As for the first edition of the *Checklist*, this publication is intended to provide the correct names of the beetles that occur in Canada and Alaska, give a brief survey of the distribution of the species in the area covered, and lead the users to useful publications for the identification of the taxa.

## Format

The classification of family-group taxa used in this checklist follows Bouchard et al. (2011). The listing of these names is phylogenetic for the superfamilies, families, and subfamilies, starting with what is considered the most basal-grade taxa, and alphabetic for the supertribes, tribes, and subtribes. Genus-group and species-group taxa and invalid synonyms are listed alphabetically. Synonyms are not listed unless the names were considered as valid taxa in the first edition of the *Checklist*, or the taxa were described after the publication of the first edition of the *Checklist* and reported from Canada and/or neighboring states, or the names have been used in recent important works dealing with the Nearctic fauna.

The authors of all scientific names are listed along with the date of publication of the taxa. To avoid confusion, initials are included for several authors, such as H.P. Brown, W.J. Brown, H. Clark, W.E. Clark, G. Dellacasa, M. Dellacasa, D.C. Miller, K.B. Miller, W.V. Miller, P.W.J. Müller, O.F. Müller, C.R. Sahlberg, R.F. Sahlberg, J.R. Sahlberg, C. Schaeffer, J.C. Schaeffer, E.H. Smith, J.B. Smith, R.F. Smith, S.G. Smith, C.G. Thomson, J. Thomson, A. Zimmermann, C.C.A. Zimmermann as well as W. Horn, and J.E. LeConte. LeConte and Horn stand for J.L. LeConte and G. Horn respectively.

An asterisk [\*] placed after a species-group name indicates that the taxon is Holarctic, a dagger [†] that it is adventive in North America, and a double dagger [‡] that its status is uncertain and the taxon could be Holarctic or adventive on this continent. Species that have been intercepted at ports of entry but are not established in Canada or Alaska are not included in the list.

References to species identification keys are listed under the corresponding supraspecific taxa in the data archive. Only references including keys useful for the determination of all or most Canadian taxa of the group treated are considered. Keys published before the 1930s are usually out-of-date and most are omitted. References to generic keys are omitted since such keys are included in the two volumes of *American Beetles* (Arnett and Thomas 2000; Arnett et al. 2002).

An abbreviation of two letters is used to indicate records for the Canadian provinces and territories and for Alaska (see section “Abbreviations”). Labrador is considered a distinct geographic entity. The distributional records are based mostly on published records and on specimens in the Canadian National Collection of Insects, Arachnids and Nematodes, in Ottawa although other Canadian and Alaskan collections were surveyed for some groups. Only records considered to be reliable are listed. The absence of a geographic entry after a species-group name indicates that the taxon was recorded from Canada but no province was specified.

## Abbreviations

<b>AB</b>	Alberta	<b>NB</b>	New Brunswick	<b>ON</b>	Ontario
<b>AK</b>	Alaska	<b>NF</b>	Newfoundland	<b>PE</b>	Prince Edward Island
<b>BC</b>	British Columbia	<b>NS</b>	Nova Scotia	<b>QC</b>	Quebec
<b>LB</b>	Labrador	<b>NT</b>	Northwest Territories	<b>SK</b>	Saskatchewan
<b>MB</b>	Manitoba	<b>NU</b>	Nunavut	<b>YT</b>	Yukon Territory

## Taxonomic coverage

All extant described species in the order Coleoptera known to occur in Canada and Alaska are included. For a summary of the number of species recorded in each beetle family see Table 1.

## Spatial coverage

This checklist includes records from all provinces and territories of Canada as well as the American state of Alaska.

**Table 1.** Number of Coleoptera species for each province/territory and Alaska by family. A= adventive; H= holarctic; T= total.

	AK	YT	NT	NU	BC	AB	SK	MB	ON	QC	NB	NS	PE	LB	NF	T	H	A
Archostemata																		
Cupedidae					1				2	1						3		
Micromalthidae					1											1		
Adephaga																		
Gyrinidae	9	11	14	1	18	18	21	21	27	28	17	18	9	11	13	34	4	
Trachypachidae	1	1	1	2	1	1										2		
Rhysodidae				1												2		
Carabidae	254	199	217	34	504	416	349	376	532	479	333	292	174	96	178	989	95	54
Haliphidae	5	6	11		18	15	13	13	19	22	14	13	6	2	4	34	2	
Noteridae									2	2						2		
Amphizoidae	1	2			3	2										3		
Dytiscidae	103	118	119	24	173	159	134	151	163	150	105	87	38	81	79	284	52	
Polyphaga																		
Hydrophiloidea																		
Hydrophilidae	25	20	35	4	84	67	65	68	96	89	46	46	21	6	26	151	11	19
Sphaeritidae	1				1	1										1		
Histeridae	4	3	3		56	52	46	53	77	67	43	32	14		5	136	1	12
Staphylinoidea																		
Hydraenidae	3		4		21	10	9	5	6	7	3	1			1	27	1	
Ptiliidae	9		1		26	15	1	11	27	29	16	18	3		3	49	8	12
Agyrtidae	4		1		6	3		1								8		
Leiodidae	55	39	18	1	105	74	45	58	110	101	43	52	2	15	25	182	13	2
Silphidae	9	6	9	3	13	17	18	18	18	17	11	12	11	3	6	26	4	1
Staphylinidae	402	264	209	30	779	443	270	390	865	769	625	422	86	149	317	1682	106	152
Scarabaeoidea																		
Geotrupidae																2	12	1
Passalidae																1		

	AK	YT	NT	NU	BC	AB	SK	MB	ON	QC	NB	NS	PE	LB	NF	T	H	A
Trogidae		1		3	5	6	5	12	6	4	4	2		1	15			
Glaresidae				1	1		1									2		
Lucanidae	2	1	2		7	2	2	3	8	5	4	3	1	1	14			
Ochoceridae					1	2	1	2	1						4			
Hybosoridae									1						1			
Glaphyridae				1											1			
Scarabaeidae	18	10	17		80	92	74	77	126	105	50	43	13	6	19	221	1	23
Scirtoidea																		
Eucinetidae	1	1	3		5	4	3	5	4	5	5	3	1		7		1	
Clambidae	1				3	3	2	2	3	6	2	1			2	7		2
Scirtidae	1	1	2		9	4	3	4	15	17	14	13	7	4	25	1	1	1
Dascilloidea									1						1			
Rhipiceridae																		
Buprestoidea																		
Buprestidae	16	13	19		80	60	51	65	117	92	51	37	12	5	7	177	1	6
Byrrhoidea																		
Byrrhidae	15	9	13	1	16	14	13	7	11	12	7	7	4	7	7	26	3	3
Elmidae			1		14	11	4	6	17	20	11	12	4	2	5	32		
Dryopidae					2	1	1	1	3	5	3	2		1	6		1	
Lutrochidae										1	1				1			
Limnichidae				1			1		3	2					3			
Heteroceridae	2	4	5		10	18	17	20	18	16	5	2	1		28			
Psephenidae										4	3	3	2		4			
Ptilodactylidae	1				2				1	2	3	1	1		4			
Elateroidea																		
Artematopodidae				1		3	1		2	3	2	1	1		1	5		
Eucnemidae	1				14	1	3	4	25	23	16	10	4		1	38		
Throscidae		2		6	1	1	1	4	4	2	3	2	1	1	8			

	AK	YT	NT	NU	BC	AB	SK	MB	ON	QC	NB	NS	PE	LB	NF	T	H	A
Elateridae	57	34	52	4	201	133	102	100	188	177	124	110	49	25	42	386	7	7
Lycidae	3	1	1	8	5	5	9	25	21	16	9	1	1	1	29	1		
Phengodidae								1							1			
Lampyridae			1		10	5	10	12	23	17	10	11	6	1	1	32		1
Cantharidae	19	14	14	4	66	39	25	33	87	79	50	34	1	6	16	154	1	3
Derodontoidae		2				5	4			3	2	2	4			1	8	1
Derodontidae						1				1					2			
Nosodendridae																		
Bostrichoidea																		
Dermestidae	9	4	6	1	33	22	21	15	28	27	12	16	11		5	49		16
Endecatomidae									1	1	1	1			1			
Bostrichidae	2	1	3		13	4	5	7	17	13	5	7	5			24	1	4
Ptinidae	11	6	2		47	23	25	28	55	56	24	36	15		12	98		19
Lymexyloidea								1		1		1			1	1		
Lymexylidae																		
Cleroidea																		
Trogossitidae	4	4	5		17	6	6	7	12	9	7	7	2	1	3	22	1	
Cleridae	5	4	6		23	13	13	16	34	27	15	15	7		4	52		6
Melyridae		1	3		37	15	12	7	13	14	5	3	1		1	53		2
Cucujoidea																		
Byturidae	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1		
Sphindidae						2	2		4	5	5	4	3		6			
Biphyllidae							6	6	5	10	19	10	7	2		1		
Erotylidae																28		1
Monotomidae	5	1			13	8	8	4	18	13	9	8	2		5	27		5
Cryptophagidae	27	2	4		48	16	22	15	23	29	19	26	7	7	15	73	18	10
Silvanidae	2		1		7	6	5	7	13	14	7	8	2		3	16		6
Cucujidae	2	1	1		6	2	3	3	3	2	1	1	1	1	1	8	1	

	AK	YT	NT	NU	BC	AB	SK	MB	ON	QC	NB	NS	PE	LB	NF	T	H	A
Passandridae									1	1						1		
Phalacridae					3		5	4	4	3	4	3	2	1	2	2	8	
Laemophloeidae	1				4	2	6	7	9	11	6	8	2		2	13		3
Kateretidae	2	1	2		5	4	4	3	6	6	5	3	1		4	8	1	2
Nitidulidae	20	13	8	1	61	42	35	45	63	63	48	38	12	1	9	101	9	11
Bothrideridae					2			2								4		
Cerylonidae	1		1		3	2	2	1	6	4	3	3	1		2	8		1
Endomychidae		1			7	2	2	5	11	9	6	7	2		2	16		2
Coccinellidae	29	30	36	2	92	81	79	66	84	80	43	43	21	9	16	161	2	9
Corylophidae	2	1	2		7	4	5	4	10	10	4	8	1		16		2	2
Latridiidae	19	5	6		34	10	23	18	22	29	27	31	17	1	14	64	7	21
Tenebrionoidea																		
Mycetophagidae		1					6	4	7	7	10	13	8	6	2		16	2
Ciidae	6		6		19	10	7	14	16	19	7	13	2		6	29		1
Tetratomidae	3	1			9	2	2	10	13	18	9	8	2		1	20		1
Melandryidae	5	2	3		20	10	9	12	21	31	25	24	5	3	13	43	3	
Mordellidae	2	6			18	10	31	38	48	50	30	25	14			75		
Ripiphoridae					3	2	2	1	5	3	2	1				11		
Zopheridae	1		2		9	4	3	2	9	6	4	2	1		2	19		1
Tenebrionidae	8	7	5		61	43	38	43	80	70	41	39	17	2	6	141	1	12
Prostomidae					1											1		
Synchroidae							1	1	2	1	1	1			2			
Stenotrachelidae	2	1	2		5	3	3	1	4	5	3	2	2	2	2	9		
Oedemeridae	2				10	4	3	3	5	5	5	5	1		2	13	1	
Meloidae	3	1	3		22	26	22	19	18	13	7	5				47		
Mycteridae					2				1	2	1	1				4		
Boridae		1			1	2	2	2	2	2	2	1				2		
Pythidae	4	3	3		5	4	4	4	4	4	5	4	2	2	1	6		

	AK	YT	NT	NU	BC	AB	SK	MB	ON	QC	NB	NS	PE	LB	NF	T	H	A
Pyrochroidae	2	1	8	5	3	4	10	12	7	5	3	1	22	1				
Salpingidae	6	1	9	1	1	1	3	2	2	2	1	2	15			1		
Anthicidae	3	2	5	34	27	26	21	27	26	16	13	7	3	65			3	
Aderidae					1	1	8	9	4	3	1			10			1	
Scaptiidae	2	1	16	5	3	8	9	4	5	3		3	20					
Ischaliidae			1	1			1	1	1	1	1		2					
Chrysomeloidea																		
Cerambycidae		39	33	34	4	152	103	80	113	223	190	122	99	43	19	33	368	3
Megalopodidae	2	3	4	6	5	5	5	6	6	1	2	1			7			1
Orsodacnidae	1	1	1	1	1	1	1	1	1	1	1	1		1				
Chrysomelidae	55	49	76	1	225	265	222	277	386	322	195	168	94	19	48	598	8	55
Curculionoidea																		
Nemonychidae					6	3	1	1	2	3	2	2			8			
Anthribidae	2	2	2	5	8	8	7	13	17	11	6	1		1	20	1	1	
Attelabidae		3		3	4	7	9	11	9	4	5	2		2	14			
Brentidae	4	3	3	14	21	18	20	22	22	13	11	3		1	49	1	8	
Dryophthoridae				9	10	8	10	19	17	9	12	4		2	27		3	
Brachyceridae	4	4	5	9	12	10	10	13	13	7	5	1	1	3	19	4	2	
Curculionidae	127	93	85	8	411	295	228	400	386	244	218	99	15	95	823	19	106	
Total	1448	1041	1115	123	3932	2863	2353	2679	4513	4127	2703	2286	899	501	1099	8237	394	628
% of total	17,6	12,7	13,6	1,5	47,8	34,8	28,6	32,6	54,8	50,2	32,9	27,8	10,9	6,1	13,4	4,8	7,6	
# species in 1991 Checklist	1205	838	1031	n/a	3626	2463	1670	2351	3841	3464	1365	1320	340	373	872	7436	316	469
Difference between 1991 and 2013	243	203	84	n/a	306	400	683	328	672	663	1338	966	559	128	227	801	78	159

## Temporal coverage

1758–2013.

## Dataset description

*Object name:* Darwin Core Archive Checklist of the beetles (Coleoptera) of Canada and Alaska. Second edition

*Character encoding:* UTF-8

*Format name:* Darwin Core Archive format

*Format version:* 1.0

*Distribution:* doi: 10.5886/998dbs2a

*Publication date of the data:* 2013-12-06

*Language:* English

*Licence of use:* Open Government License – Canada, version 2.0 (<http://data.gc.ca/eng/open-government-licence-canada#>)

*Metadata language:* English

*Date of metadata creation:* 2013-09-06

*Hierarchy level:* Dataset

## Additional information

A book which includes a formatted version of the checklist, as well as an index to supraspecific taxa, is also available from Pensoft Publishers.

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